

ABSTRAK

AMELIA RINAWATI. Pengaruh Model *Problem Based Learning* Terhadap Kemampuan Pemecahan Masalah Keanekaragaman Hayati. Dibawah bimbingan RATNA KOMALA, ERNA HERYANTI

Kemampuan pemecahan masalah adalah suatu cara atau strategi untuk mencapai tujuan sesuai dengan prosedur yang baik dan benar. Salah satu model pembelajaran yang dapat diterapkan untuk meningkatkan kemampuan pemecahan masalah adalah model *Problem Based Learning* (PBL). Penelitian ini bertujuan untuk mengetahui pengaruh model PBL terhadap kemampuan pemecahan masalah keanekaragaman hayati. Metode yang digunakan yaitu metode kuasi eksperimen dengan desain *pre test post test control grup*. Penelitian dilakukan di SMAN 89 Jakarta pada bulan Agustus hingga September 2019. Subjek penelitian yaitu peserta didik kelas X MIA 1 dan 2 yang berjumlah 66 peserta didik dengan pengambilan sampel menggunakan teknik *simple random sampling*. Uji validitas dan uji reliabilitas dilakukan pada instrumen tes kemampuan pemecahan masalah. Hasil uji validitas menunjukkan soal yang valid sebanyak 15 butir dari 18 butir soal. Uji reliabilitas menunjukkan nilai r_{hitung} sebesar 0,901 dan termasuk dalam kriteria sangat tinggi. Analisis data prasyarat menggunakan uji Kolmogorov Smirnov untuk normalitas dan uji F untuk homogenitas. Hasil yang didapat dari uji prasyarat adalah data berdistribusi normal dan berasal dari dua populasi yang homogen. Uji statistik menggunakan Independent t-test pada $\alpha = 0,05$ kemudian didapatkan nilai signifikansi 0,000 yang menunjukkan bahwa terdapat pengaruh model pembelajaran PBL terhadap kemampuan pemecahan masalah keanekaragaman hayati. Uji efektifitas model PBL dengan perhitungan *normalized gain* memperoleh skor sebesar 0,72 atau termasuk kedalam kategori cukup efektif. Dari hasil penelitian disimpulkan bahwa terdapat pengaruh model Problem Based Learning terhadap kemampuan pemecahan masalah peserta didik pada materi keanekaragaman hayati.

Kata kunci: *keanekaragaman hayati, kemampuan pemecahan masalah, model Problem Based Learning.*

ABSTRACT

AMELIA RINAWATI. The Influence of Problem Based Learning Model on Problem Solving Ability of Biodiversity. Supervised by RATNA KOMALA, ERNA HERYANTI

Problem solving ability is a way or strategy to achieve goals in accordance with good and correct procedures. One of the learning models that can be applied to improve problem solving ability is problem based learning learning model. The purpose of research was to investigate the influence of problem based learning model on students' problem solving ability. The method used was the quasi-experiment with pre test and post test control group design. Instrument applied was problem solving ability of biodiversity. The research was conducted at SMAN 89 Jakarta in August to September 2019. The subject of this research were students of X MIA 1 dan 2 from totalling 66 students. Samples were taken using simple random sampling. Instrument of problem solving ability was test for validity and reliability. The result of validity test showed there are 15 valid items out of 18 items. Reliability test showed value of r_{hitung} was 0.901 and included on very high criteria. Prerequisite data analysis used Kolmogorov Smirnov test for normality and F test for homogeneity. The result from prerequisite test were normally distributed and came from both homogeneous populations. Statistic test used was Independent t-test on $\alpha = 0.05$ with significant value was 0.000 showed that the influence of Problem Based Learning (PBL) on problem solving ability of biodiversity. The effectiveness test of PBL model with normalized gain calculated score of 0.72 or included the category was quite effective. The result of research showed that the influence of PBL model on students' problem solving ability of biodiversity.

Keywords: biodiversity, problem solving ability, problem based learning.